

TVVR10000



User manual

Version 05/2010



Original English user manual. Keep for future use.

Introduction

Dear Customer,

Thank you for purchasing this product.

This product meets the requirements of the applicable European and national guidelines. The corresponding declarations and documents can be obtained from the manufacturer (www.abus-sc.com).

To maintain this condition and to ensure risk-free operation, you as the user must observe these operation instructions!

Before initial start-up, read through the complete operating instructions observing operating and safety instructions.

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If you have any questions, please contact your installer or your local dealer!

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Disclaimer

This user manual was prepared with greatest care. If you should notice omissions or inaccuracies, please inform us about these on the back of this manual given address.

The ABUS Security-Center GmbH assumes no liability for technical and typographical faults and reserves the right to make at any time modifications to the product or user manual without a previous announcement. The company is not liable or responsible for direct and indirect subsequent damages which are caused in connection with the equipment, the performance and the use of this product. No guarantee for the content of this document is taken.

Icon explanation



A flash in the triangle is used if there is danger for the health, e.g. by an electric shock.



An exclamation mark in the triangle points to an important note in this user manual which must be minded.



This symbol can be found when you are to be given tips and information on operation.

Important safety advice



The warranty will expire for damage due to non-compliance with these operating instructions. ABUS will not be liable for any consequential loss!



ABUS will not accept liability for damage to property or personal injury caused by incorrect handling or non-compliance with the safety-instructions. In such cases the warranty will expire.

The device has been manufactured in compliance with international safety standards. Please read these safety advices carefully.

Safety advice

1. Mains supply
90 - 250V AC 50/60Hz
Operate this product only from the type of power supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company. Disconnect the product from the mains before you start any maintenance or installation procedures.
2. Overloading
Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock.
3. Liquids
Setup the device only in dry and dust-protected rooms. Protect the device from any kind of liquids entering.
4. Cleaning
Disconnect the product from the wall outlet before cleaning. Use a light damp cloth (no solvents) to dust the product.
5. Ventilation
The slots on top of the product must be left uncovered to allow proper airflow into the unit. Do not stand the product on soft furnishings or carpets. Do not stack electronic equipments on top of the product.
6. Accessories
Do not use any unsupported accessories as these may be hazardous or cause damage the product.

7. Location

- Setup the device only in dry and dust-protected rooms.
- Protect the device from any kind of liquids entering.
- Do not place the device near a radiator or heat register.
- Setup the device only in areas with the advised operating temperatures of 0° ~ 40°C.

Warnings

Follow all safety and operating advises before starting-up the device!

1. Follow these directions in order to avoid damage of the power cord or plug:
 - Do not modify or process the power cord or plug arbitrarily.
 - Do not bend or twist the power cord.
 - Make sure to disconnect the power cord holding the plug.
 - Keep heating appliances as far as possible from the power cord in order to prevent the cover vinyl from melting.
2. Follow these directions. Failure to follow any of them may cause electrical shock:
 - Do not open the main body, except for installing the HDD.
Disconnect the product from the mains before you start.
 - Do not insert metal or inflammable objects inside the product.
 - In order to avoid any damage during lighting use a surge protection.
3. Do not use the product when it is out of order. If you continue to use the product when defective, serious damage can be caused to it. Make sure to contact your local product distributor if the product is out of order.



During the installation into an existing video surveillance system make sure that all devices are disconnected from the low and supply voltage circuit.



If in doubt allow a professional electrician to mount, install and wire-up your device. Improper electrical connection to the mains does not only represent a threat to you but also to other persons.

Wire-up the entire system making sure that the mains and low voltage circuit remain separated and cannot come into contact with each other in normal use or due to any malfunctioning.

Unpacking

While you are unpacking the device please handle it with utmost care.



If you notice any damage of the original packaging, please check at first the device.
If the device shows damages, please contact your local dealer.

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1. Intended use

Thanks to its 2 hour battery life time the Eytron Camcorder can be used for mobile surveillance as well as for sport and leisure recordings. Furthermore it can also be used as PC webcam. Inside the compact aluminium housing a high resolution camera and a recorder for real-time recording (640x480 Pixel @ 30 fps) is hidden. You can choose between continuous or sound triggered recording. The image data is stored on standard microSD cards and the AVI file format allows playback on any standard PC.

A detailed description of all functions can be found in chapter „3 Features and functions“.



Data storage is object to country-specific regulations. Point this to your customer during the installation.

2. Scope of delivery

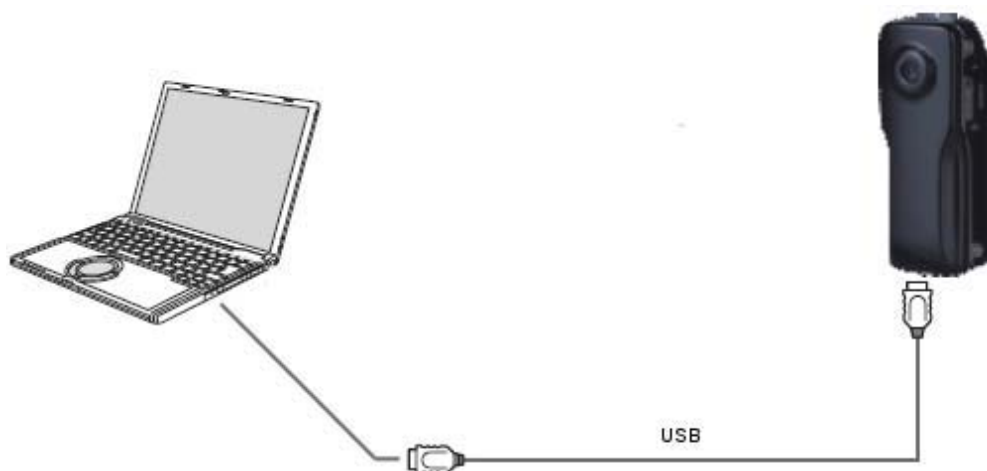
	Camcorder
	Power supply
	Clip
	Wall bracket
	Velcro and screws for bracket
	Silicon case
	Pouch
	Chain
	USB cable
	USB connector
	CD
	Manual

3. Features and functions

- Built-in high resolution camera
- Real time recording with 640x480 pixel @ 30 fps
- 1,5 hours continuous recording, 100 hours standby
- Sound trigger and continuous recording
- AVI video format recording for easy playback using a PC
- Supports standard microSDHC cards (max. 8GB)
- Compact aluminum housing
- Can be used as PC webcam

4. Charging the battery

In order to charge the battery you need to connect the Camcorder to a PC by using the included USB cable. If the battery is completely empty the charging time will be approx. 2 hours.

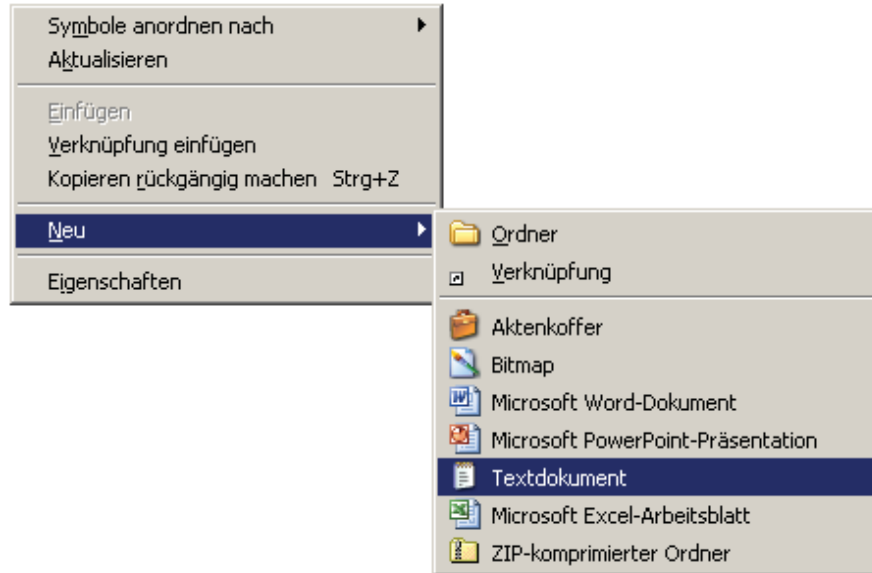


A fully charged battery will last approx. 100 hours in stand-by mode and 2 hours in continuous recording.

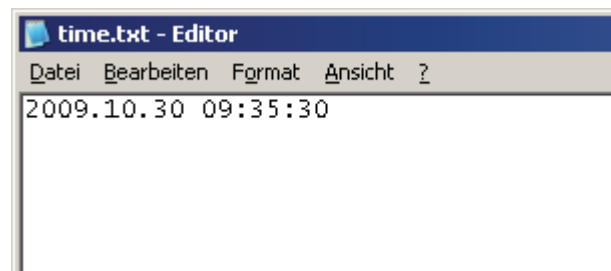
5. Setting date and time

In order to set date and time after the DVR being not powered for while, please proceed as following:

- Create a text file named „time.txt“

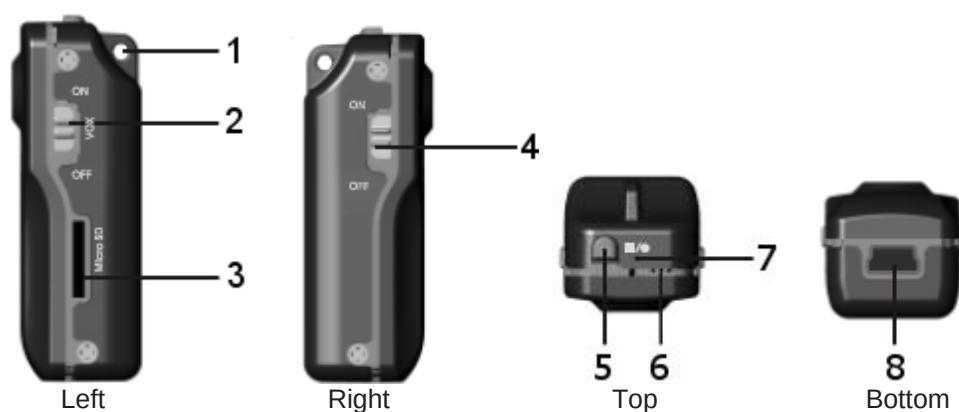


- Enter date and time in following way:
Year.month.Day Hour:Minute:Seconds, Example: 2009.10.30 09:35:30



- Copy the file to the MicroSD card, insert it into the DVR and start the recorder. The entered time stamp will be used as of now.

6. Button description



1	Hole for necklace
2	Sound trigger switch
3	MicroSD card slot
4	ON / OFF switch
5	Stop / Record button
6	Microphone
7	Status LED *
8	USB connector

* The different colors of the status have following meaning:

LED color	State	Description
Blue	Off	Stand-by mode
	Always on	Camcorder is ready
	Flashing slowly	Low battery
	Flashing quickly	Copying data to PC
Green	Always on	MicroSD card is full
	Flashing slowly	Camcorder is Recording
	Flashing quickly	No MicroSD card inserted
Red	Off	Camcorder is fully charged
	Always on	Camcorder is Charging

7. Mounting

The Camcorder can easily be mounted to a clip or wall bracket.

7.1 Clip bracket



7.2 Wall bracket

Use the included screws to install the wall bracket safely.



You can then use the Velcro or the clip bracket to install the Camcorder.



After mounting the wall bracket you can adjust the viewing angle by turning the clip.



7.3 Further mounting options

By threading a necklace or similar through the opening of the Camcorder you can wear the Camcorder around your neck or hang it from ceilings.



8. Getting started

8.1 Inserting SD card and turning on the Camcorder

In order to get started first insert a MicroSD card into the SD card slot.



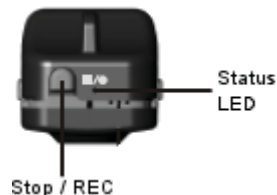
Then turn on the Camcorder by pushing the POWER switch from OFF to ON. The status LED will turn blue.

Notice:

- The Camcorder will automatically go into stand-by mode after 2 minutes of inactivity.
- The status LED will flash quickly green if no MicroSD card is inserted.
- If the battery is low the status LED will slowly flash blue and the Camcorder will automatically turn itself off after 2 minutes.

8.2 Manual recording

After turning on the Camcorder press once the “Stop / REC” button to start recording manually. The status will start to flash slowly green. Press the “Stop / REC” button again to stop the recording.



Notice:

- Do not remove the MicroSD card during recording. The current recording will be damaged and cannot be viewed.
- Longer recordings will be put into AVI files, each 30 minutes long and 1GB big.
- If the MicroSD card is full the status LED will turn green and turn itself off after 30 minutes. No further buttons are functional at this state so please turn the Camcorder off.

8.3 Sound trigger recording

After turning on the Camcorder also activate the sound trigger by pushing the VOX from OFF to ON.

The Camcorder will automatically start a 2 minute recording if it recognizes any noise above 65dB.

If during the recording the noise level raises again above 65db the recording time will be extended.

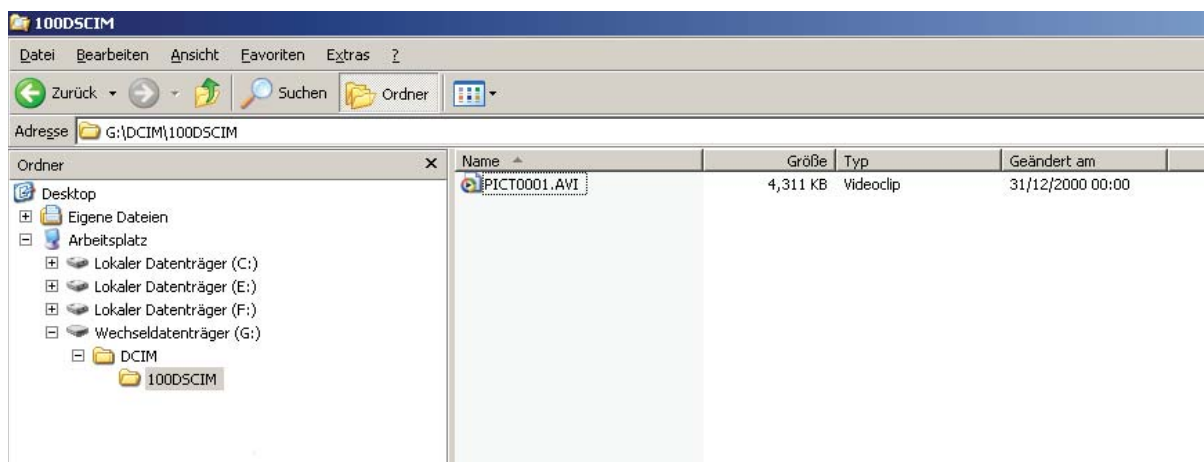
If the Camcorder is not triggered by sound within 2 minutes the Camcorder will switch to stand-by mode and will automatically start recording at the next noise detection.

9. Playback

In order save and playback the recorded video files connect the Camcorder (Power = ON & VOX = OFF) to a PC by using the included USB cable. The PC will automatically recognize the Camcorder and a drive letter will be assigned.



You can then access the Camcorder and copy or playback the recorded files by using any standard media player.



10. Using the Camcorder as webcam

You can also use the Camcorder as PC webcam. In order for the PC to recognize the Camcorder as standard camera the drivers from the included CD have to be installed.

After the successful driver installation you can use the Camcorder as webcam for communication in any messenger program or use the included software to capture images.

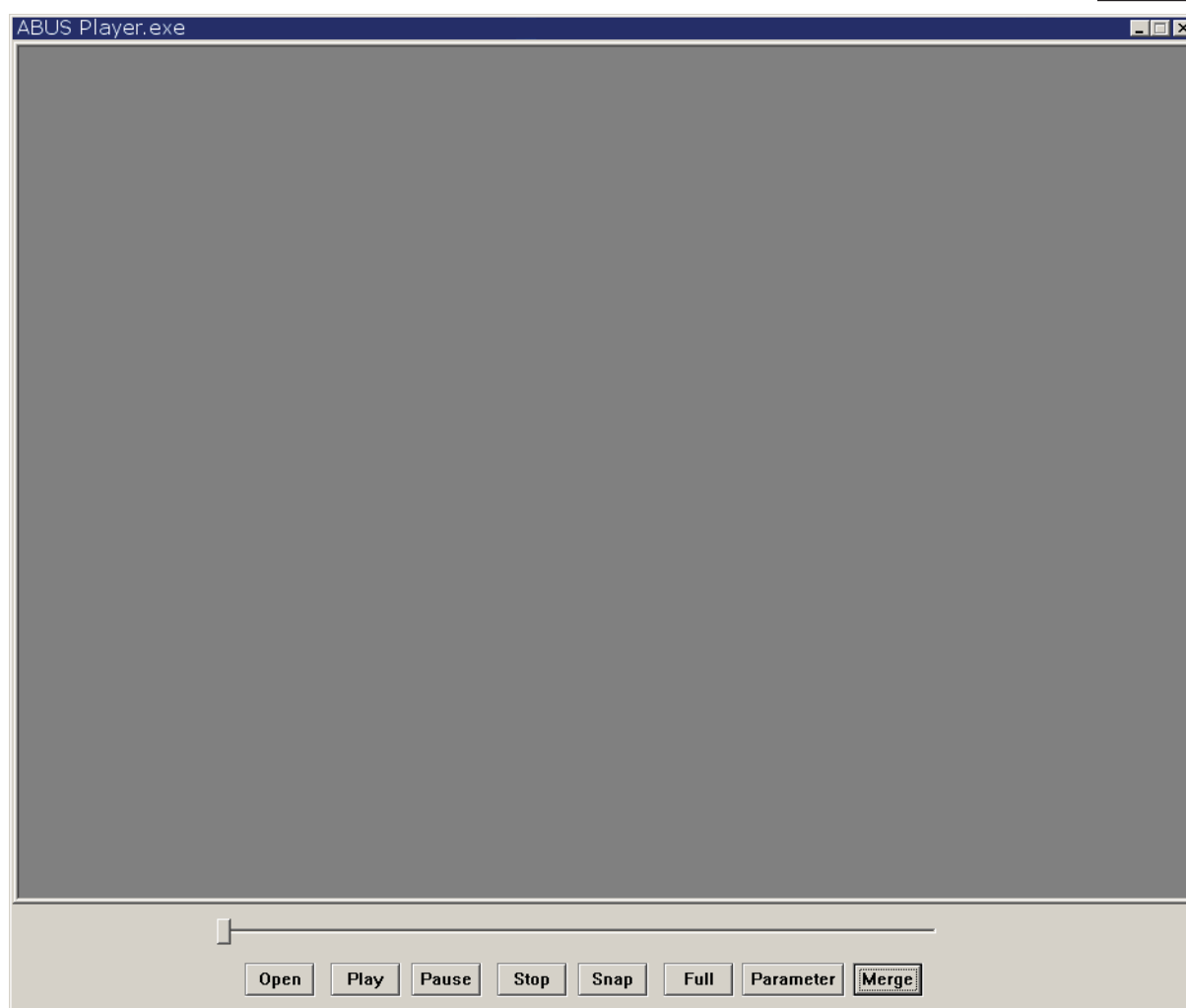
11. Included software

11.1 Capture software

After the successful driver installation you can use the Camcorder as webcam for communication in any kind of messenger.

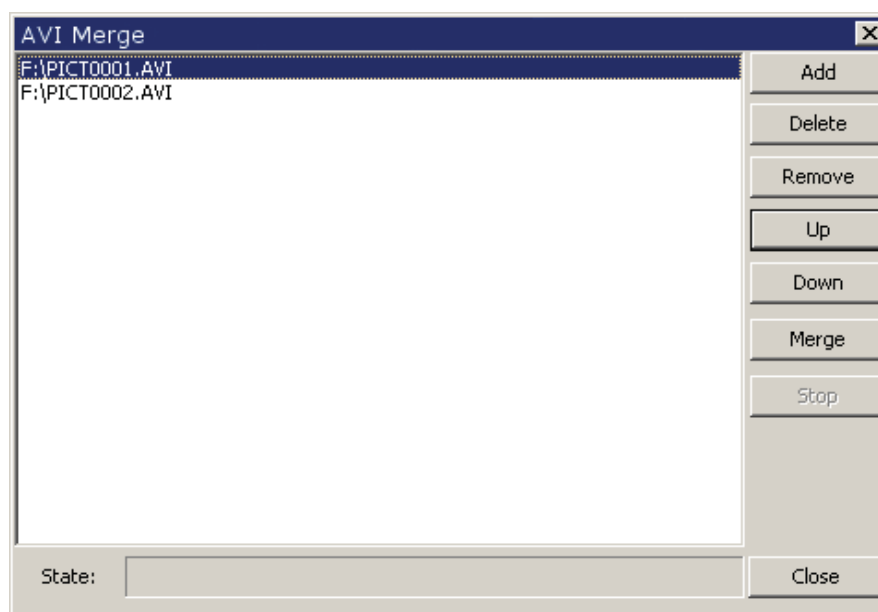
11.2 Playback software

All recorded AVI files can be watched in any standard PC multimedia player or you can use the included software named "TVVR10000 Player.exe" which can be found on the included CD. This software also provides the function to merge several separate AVI files to one file.



Open	Open a AVI file from the Camcorder or hard disk
Play	Play the opened file
Pause	Pause the current playback
Stop	Stop the current playback
Snap	Creates a bmp (bitmap) snapshot in Play or Pause mode, which can be opened by drawing programs, e.g. Paint
Full	Full screen display of the video
Parameter	Important video parameters are displayed
Merge	Here you can merge several AVI files to one file

AVI Merge:



Add	Add recorded AVI files you like to merge
Delete	Delete selected files you have added
Remove	Delete all files you have added
Up	Move selected file upwards. Top files will be merged first.
Down	Move selected file downwards. Top files will be merged last.
Merge	Merge added files
Stop	Stop merging manually
Close	Close window

12. Technical specification

TVVR10000 Camcorder	
Video compression	MJPEG
Operating mode	Simplex
Recording resolution	640 x 480 @ 30fps
Compression levels	1
Storage	Micro SD Card
Recording modes	Continuous, sound trigger (as of 65dB)
Audio	Built-in microphone
Image sensor	CMOS
Camera type	Color camera
Resolution	2 MPx
Picture elements (total)	1600 x 1200
Picture elements (effective)	1280 x 960
Lens	F2.8
Horizontal viewing angle	72°
Min. Illumination (Day)	1 Lux
White balance	Automatic
Gain Control	Automatic
Backlight compensation	Automatic
Battery operation	1,5 hours continuous recording
Power supply	3,7 VDC
Power consumption	120mA
Operating temperature	-10°C - 60°C
Operating humidity	15% - 80%
Dimensions (W x H x D)	50 x 28 x 20 mm
Weight	50g

13. Disposal



Products which are labeled with this pictogram may not be disposed by the domestic rubbish. Please dispose the product in accordance with the prevailing legal regulations at the end of its life time.
Please consult your dealer or dispose the product over the municipal gathering point for electric scarp.